Australian Government

UET50219 Diploma of ESI - Power Systems

Release 2

UET50219 Diploma of ESI - Power Systems

Modification History

Release 2. Removed deleted units UETTDRDS44, UETTDRDS49, UETTDRIS66, UETTDRSO39 and UETTDRSO43 from the qualification due to zero enrolments.

Release 1. This is the first release of this qualification in the UET Transmission, Distribution and Rail Sector Training Package

Qualification Description

This qualification provides the skills and knowledge to work in the electricity supply industry (ESI) as a High Voltage (HV) Substation Project Manager or a Senior Systems Operator (ESI) or a Power Systems Technical Officer.

This qualification covers overseeing the construction of electrical substations and related projects within the ESI. It also includes managing personnel, the business aspects of projects and giving specialist advice to deal with day-to-day issues and problems.

The skills and knowledge described within the units in this qualification may require a licence or permit to practice in the workplace.

Additional and/or other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing the qualification.

Entry Requirements

There are no entry requirements for this qualification

Packaging Rules

A total of **1600 weighting points** comprising:

700 core weighting points listed below; **plus**

900 general elective weighting points from the general elective units listed below.

Choose a total of 900 **weighting points** elective units from the list below, of which between 0 and 270 **weighting points** can be taken from Group A; between 0 and 400 **weighting points** can be taken from Group B; between 0 and 200 **weighting points** can be taken from Group C and between 140 and 900 **weighting points** taken from Group D. You may select all your electives from this group.

Up to 270 weighting points of the general elective units Group A may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UET Transmission, Distribution

and Rail Sector Training Package Companion Volume Implementation Guide, if not listed weighting points will be 10 points.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with.

Core units		**Weighting Points**
UEENEED104A	Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE104A	Solve problems in d.c. circuits ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE124A	Compile and produce an energy sector detailed report	60
UEENEEE125A	Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems	60
UEENEEE126A	Provide solutions to basic engineering computational problems ∟UEENEEE029B Solve electrotechnical problems or ∟UEENEEG102A Solve problems in low voltage a.c. circuits or ∟UEENEEH014B Troubleshoot frequency dependent	60

	circuits	
UEENEEG101A	Solve problems in electromagnetic devices and related circuits ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE104A Solve problems in d.c. circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	80
UEENEEG149A	Provide engineering solutions to problems in complex polyphase power circuits ∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits and ∟UEENEEG102A Solve problems in low voltage a.c. circuits	60
UETTDREL11	Apply sustainable energy and environmental procedures	20
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRIS62	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UETTDREL16 Working safely near live electrical apparatus	30
UETTDRIS63	Implement & monitor power system environmental & sustainable energy management policies & procedures Electrotechnology Pathway Unit Group ∟UEENEEK142A Apply environmentally and sustainable procedures in the energy sector ESI - TDR Pathway Unit Group	30

	∟UETTDREL11 Apply sustainable energy and environmental procedures	
Group A: Imported and common elective units		**Weighting Points**
BSBCUS501	Manage quality customer service	40
BSBFIM501	Manage budgets and financial plans	70
BSBINM501	Manage an information or knowledge management system	50
BSBINN502	Build and sustain an innovative work environment	50
BSBLED501	Develop a workplace learning environment	60
BSBMGT502	Manage people performance	70
BSBMGT516	Facilitate continuous improvement	60
BSBMGT517	Manage operational plan	60
BSBSUS501	Develop workplace policy and procedures for sustainability	50
BSBWOR501	Manage personal work priorities and professional development	60
BSBWOR502	Lead and manage team effectiveness	60
Group B: Qualification elective units		**Weighting Points**
UEENEEG006A	Solve problems in single and three phase low voltage machines	80
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE105A Fix and secure electrotechnology equipment	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic	

	devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuit ∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEH102A	Repairs basic electronic apparatus faults by replacement of components ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	40
UEENEEH112A	Troubleshoot digital sub-systems ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEH102A Repair basic electronic apparatus faults by replacement of components	80
UEENEEH139A	Troubleshoot basic amplifier circuits ∟UEENEEH102A Repair basic electronic apparatus faults by replacement of components AND ∟UEENEEH114A Troubleshoot resonance circuits in an electronic apparatus OR ∟UEENEEG102A Solve problems in low voltage a.c. circuits	40
UETTDREL15	Respond to power systems technical enquiries and requests	40
UETTDRIS67	Solve problems in energy supply network equipment Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE105A Fix and secure electrotechnology equipment	80

	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG006A Solve problems in single and three phase low voltage machines	
	∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UETTDRIS68	Solve problems in energy supply network protection equipment and systems	40
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE105A Fix and secure electrotechnology equipment	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG006A Solve problems in single and three phase low voltage machines	
	∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	∟UETTDRIS67 Solve problems in energy supply network equipment	

Group C: Qualification elective units		**Weighting Points**
UEENEEE190A	Prepare engineering drawings using manual drafting and CAD for electrotechnology/utilities applications	60
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEED104A Use software for engineering	

	applications ∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
UEENEEE191A	Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software ∟UEENEED104A Use software for engineering applications ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE190A Prepare engineering drawings using manual drafting and CAD for electrotechnology/utilities applications	60
UEENEEE192A	Produce detailed electrotechnology /utilities drawings using computer aided design equipment and software ∟UEENEED104A Use software for engineering applications ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE190A Prepare engineering drawings using manual drafting and CAD for electrotechnology/utilities applications ∟UEENEEE191A Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software	60
UEENEEI155A	Develop structured programs to control external devices ∟UEENEEE101A Apply Occupational Health and	40

	Safety regulations, codes and practices in the workplace	
UETTDRDS31	Draft and layout a power system overhead distribution extension Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	60
UETTDRDS32	Draft and layout a power system underground distribution extension Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c.	60

	circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRDS33	Draft and layout a power system street lighting system Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	60
UETTDRDS34	Draft and layout a power system distribution substation minor upgrade Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	60

	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	

Group D: Qualification elective units		**Weighting Points**
UEENEEC005B	Estimate electrotechnology projects	40
UEENEEC006B	Prepare tender submissions for electrotechnology projects	60
	∟UEENEEC005B Estimate electrotechnology projects	
UEENEER001B	Contribute to the planning of a research project	120
UEENEER002B	Contribute to the conduct of a research project	120
UEENEER003B	Contribute to the development of a product/application/ service	120
UEENEER004B	Contribute to the trial of a product/application/ service	120
UEPOPS507	Conduct project management	60
UEPOPS520	Evaluate cost estimations and initiate appropriate solutions	40
	∟UEENEEC005B Estimate electrotechnology projects	

UETTDRDS35	Design overhead distribution power systems	140
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	∟UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTDRDS36	Design underground distribution power systems	140
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	∟UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTDRDS37	Design power system distribution substations	140
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	∟UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTDRDS38	Design power system public lighting systems	140
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	∟UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTDRDS39	Prepare and manage detailed construction plans for electrical power system infrastructure Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	140
UETTDRDS42	Investigate quality of power systems supply issues Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c.	140

	circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETTDRDS35 Design overhead distribution power systems	
	∟UETTDRDS36 Design underground distribution power systems	
	Pathway Unit Group 1	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	∟UETTDRDS43 Develop high voltage and low voltage distribution protection systems	
UETTDRDS43	Develop high voltage and low voltage distribution protection systems	150
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic	

	engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRDS45	Organise and implement ESI line and easement surveys	140
	Common Unit Group	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system	

	environmental & sustainable energy management policies & procedures	
UETTDRDS46	Develop planned power systems outage strategies Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEED104A Use engineering applications software on personal computers ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	140
UETTDRIS69	Diagnose and rectify faults in energy supply apparatus Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE105A Fix and secure electrotechnology equipment ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG006A Solve problems in single and three phase low voltage machines ∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟UETTDRIS67 Solve problems in energy supply network equipment ∟UETTDRIS68 Solve problems in energy supply network protection equipment and systems	60
UETTDRIS71	Diagnose and rectify faults in electrical energy supply transmission systems	60

	Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE105A Fix and secure electrotechnology equipment ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG006A Solve problems in single and three phase low voltage machines ∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟UETTDRIS67 Solve problems in energy supply network equipment ∟UETTDRIS68 Solve problems in energy supply network protection equipment and systems ∟UETTDRIS69 Diagnose and rectify faults in energy supply apparatus	
UETTDRIS72	Diagnose and rectify faults in distributed generation systems Common Unit Group ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE105A Fix and secure electrotechnology equipment ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c.	60

	circuits	
	∟UEENEEG006A Solve problems in single and three phase low voltage machines	
	∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	∟UETTDRIS67 Solve problems in energy supply network equipment	
	∟UETTDRIS68 Solve problems in energy supply network protection equipment and systems	
	∟UETTDRIS69 Diagnose and rectify faults in energy supply apparatus	
UETTDRSO36	Develop low voltage distribution switching programs	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE124A Compile and produce an energy sector detailed report	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power	

	system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRSO37	Develop high voltage distribution and sub-transmission switching programs	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE124A Compile and produce an energy sector detailed report	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	

UETTDRSO38	Develop and evaluate power systems transmission switching programs	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE124A Compile and produce an energy sector detailed report	
	∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	∟UEENEEE126A Provide solutions to basic engineering computational problems	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRSO40	Coordinate high voltage distribution and sub-transmission networks	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	

	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE124A Compile and produce an energy sector detailed report	
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	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
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	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs	
UETTDRSO45	Operate and monitor system SCADA equipment	150
	Common Unit Group	
	∟UETTDREL15 Respond to power systems technical enquiries and requests	
UETTDRSO46	Monitor and control the field staff activities	150
	To minimise incidents related to safe systems of work, entry into this unit requires at a minimum that an individual has demonstrated or possesses relevant	

technical engineering discipline competencies of at least AQF level 3. It is intended that an individual will be expected to perform with a large degree of autonomy in decision-making, whilst in an individual environment.

This may include immediate response to protect human life, adverse effect on safety, security of supply or the integrity of the assets.

NOTE: Typically the following disciplines provide direct entry; electrical or instrumentation, fitting and turning or mechanical trade.

Where an individual does not possess or demonstrate the requisite entry requirement, an equivalent bridging program shall be used to ensure equivalence of entry.

UETTDRSO47	Coordinate high voltage transmission network	150

Common Unit Group

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∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components

∟UEENEEE104A Solve problems in d.c. circuits

∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

∟UEENEEE124A Compile and produce an energy sector detailed report

∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits

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∟UEENEEG101A Solve problems in electromagnetic devices and related circuits

∟UEENEEG102A Solve problems in low voltage a.c. circuits

∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

∟UETTDREL11 Apply sustainable energy and environmental procedures

∟UETTDREL16 Working safely near live electrical

	apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETTDRSO38 Develop and evaluate power systems transmission switching programs	
UETTDRSO48	Respond to discrete and interdependent protection operations Common Unit Group ∟UEENEED104A Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE124A Compile and produce an energy sector detailed report ∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures	150

	and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Distribution and Sub-transmission Pathway Unit Group	
	∟UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs	
	∟UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks	
	Transmission Pathway Unit Group	
	∟UETTDRSO38 Develop and evaluate power systems transmission switching programs	
	∟UETTDRSO47 Coordinate high voltage transmission network	
UETTDRSO49	Coordinate power system operations in a regulated energy market	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEE124A Compile and produce an energy sector detailed report	
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	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and	

	environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Distribution and Sub-transmission Pathway Unit Group	
	∟UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs	
	∟UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks	
	Transmission Pathway Unit Group	
	∟UETTDRSO38 Develop and evaluate power systems transmission switching programs	
	∟UETTDRSO47 Coordinate high voltage transmission network	
UETTDRTS21	Maintain interdependent network protection and control systems	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
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	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETTDRTS29 Develop power systems secondary isolation instructional documents	
UETTDRTS22	Commission interdependent network protection and control systems	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
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	∟UEENEEG149A Provide engineering solutions to	

	problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETTDRTS21 Maintain interdependent network protection and control systems	
	∟UETTDRTS29 Develop power systems secondary isolation instructional documents	
UETTDRTS25	Maintain and test and metering schemes	140
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
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	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and	

	environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETTDRTS29 Develop power systems secondary isolation instructional documents	
UETTDRTS26	Commission power systems metering schemes	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
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	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power	

	system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETTDRTS25 Maintain and test and metering schemes ∟UETTDRTS29 Develop power systems secondary isolation instructional documents	
UETTDRTS27	Perform accuracy checks on power systems instrument transformers Common Unit Group ∟UEENEED104A Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE124A Compile and produce an energy sector detailed report ∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures	150

	and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS28	Repair, test and calibrate protection relays and meters	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
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	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS29	Develop power systems secondary isolation instructional documents	150

	Common Unit Group ∟UEENEED104A Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟UEENEEE104A Solve problems in d.c. circuits ∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE124A Compile and produce an energy sector detailed report ∟UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟UETTDREL11 Apply sustainable energy and environmental procedures ∟UETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS31	Maintain, test and commission power systems voltage regulating equipment Common Unit Group ∟UEENEED104A Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	150

	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
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	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS34	Install and maintain power system communication equipment	150
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
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	∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS35	Maintain complex network protection and control systems	180
	Common Unit Group	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
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∟UEENEEG102A Solve problems in low voltage a.c. circuits

∟UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

∟UETTDREL11 Apply sustainable energy and environmental procedures

∟UETTDREL16 Working safely near live electrical apparatus

∟UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

∟UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

∟UETTDRTS21 Maintain interdependent network protection and control systems

∟UETTDRTS29 Develop power systems secondary isolation instructional documents

Qualification Mapping Information

This qualification replaces and is equivalent to UET50212 Diploma of ESI - Power Systems

Links

Companion Volume Implementation Guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7